

Name \_\_\_\_\_

Date \_\_\_\_\_

AE Chemistry  
Acids and Bases

**Properties**

Determine whether each property describes an acid or a base.

- |                       |                               |
|-----------------------|-------------------------------|
| 1. Bitter taste       | 6. $\text{pH} = 6$            |
| 2. Slippery feel      | 7. Turns litmus paper blue    |
| 3. $\text{pH} = 10$   | 8. Turns phenolphthalein pink |
| 4. Reacts with metals | 9. Turns litmus paper red     |
| 5. $\text{pH} = 12$   | 10. $\text{pH} = 1$           |

**Examples**

Determine whether each substance is an acid or a base.

- |              |                  |
|--------------|------------------|
| 1. Oranges   | 6. Lemon juice   |
| 2. Tomatoes  | 7. Spinach       |
| 3. Windex    | 8. Cherries      |
| 4. Sour milk | 9. Drain Cleaner |
| 5. Tums      | 10. Soap         |

**Formulas**

Determine whether each chemical formula represents an acid or a base. Next, write the NAME of the acid or base (use your ion sheet for help)!

- |                            |                                      |
|----------------------------|--------------------------------------|
| 1. $\text{HCl}$            | 6. $\text{HC}_2\text{H}_3\text{O}_2$ |
| 2. $\text{NaOH}$           | 7. $\text{Al}(\text{OH})_3$          |
| 3. $\text{H}_3\text{PO}_4$ | 8. $\text{H}_2\text{CO}_3$           |
| 4. $\text{HNO}_3$          | 9. $\text{H}_2\text{SO}_4$           |
| 5. $\text{KOH}$            | 10. $\text{Ca}(\text{OH})_2$         |

### Neutralization Reactions

Balance each of the following neutralization reactions AND identify which reactant is an acid and which is a base.

